RECEIVED
CENTRAL FAX CENTER

MAY 1 0 2004

OFFICIAL

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

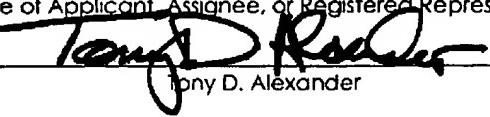|			
APPLICANTS:	Anthony C. Spearman et al.	**DATE MAILED:**	May 9, 2004
SERIAL NO.:	09/660,709	**DOCKET NO.:**	000102.0001
FILED:	September 13, 2000	**ART GROUP:**	2663
FOR:	WIRELESS PROVISIONG DEVICE	**EXAMINER:**	T. Nguyen

I hereby certify that this correspondence is being transmitted, via facsimile, to the US Patent and Trademark Office, on **May 9, 2004**, addressed to Technology Center 2600, Before Final Facsimile No.: 703.872.9314.

Tony D. Alexander
(Name of Applicant, Assignee, or Registered Representative)

Tony D. Alexander

May 9, 2004
(Date of Signature)

AMENDMENT AND RESPONSE

Dear Sir:

A Non-Final Office Action was mailed on **November 10, 2003**, in the above-referenced case. The period for response to the Office Action was set to expire on February 10, 2004. With the granting of the accompanying Petition, the period for response will be extended to expire on **May 10, 2004**, therefore, this response is timely filed.

The U.S. Patent & Trademark Office is authorized to charge any deficiency or to credit any overpayment for any fees required for this filing to Deposit Account No.50-1949.

In response to the above-referenced Office Action, please amend the application in the claims as follows (support for the following claim amendments is found in the application specification at, e.g., page 3 line 18 through page 5 line 13; page 6 lines 2-18; page 19 line 13 through page 20 line 2; page 20 lines 3-16; page 20 line 19 through page 21 line 14; page 23 lines 11-23; and page 26 lines 3-13):

1   1.   (Previously Amended): A wireless provisioning device for use in

2 public domain networks wherein the wireless provisioning device is accessible by

3 a user of mobile computing devices, comprising:

4   a chassis;

5   at least one network card;

6   at least one wireless card;

7   at least one processor;

8   an operating system, the operating system operably configured in

9 the chassis to control the at least one network card, the at least one

10 wireless card and the at least one processor, which are operatively

11 coupled with the chassis;

12   a packet-switched interface capable of receiving a multiplicity of

13 inbound framed packet-data to provide inbound packets and

14 transmitting a multiplicity of outbound framed packet-data comprising

15 outbound packets;

16   a channeling controller, coupled to the packet-switched interface

17 that channels the inbound packets based on the inbound address

18 information and constructs the outbound packets and channels the

19 outbound packets with the outbound address information, the

20 channeling controller capable of being effectively connected to at least

21 one network via the operating system; and

22   an authenticator in operative communication with the operating

23 system to allow authentication at the wireless provisioning device;

24   whereby the user of a mobile computing device connects to the

25 wireless provisioning device without having to first access the Internet.

2

1   2.   (Original): The wireless provisioning device of claim 1, wherein the

2   channeling controller routes the outbound packets.

1.   3.   (Original): The wireless provisioning device of claim 2, wherein the

2   channeling controller routes the outbound packets.

1   4.   (Original): The wireless provisioning device of claim 1, wherein the

2   channeling controller bridges the inbound packets.

1   5.   (Original): The wireless provisioning device of claim 4, wherein the

2   channeling controller bridges the outbound packets.

1   6.   (Original): The wireless provisioning device of claim 1, wherein the

2   operating system of the wireless provisioning device is an open source UNIX

3   based system.

1   7.   (Previously Amended): A wireless provisioning device, comprising:

2   a chassis;

3   at least one network card;

4   at least one wireless card;

5   at least one processor;

6   a LINUX operating system, the operating system operably

7   configured in the chassis to control the at least one network card, the at

8   least one wireless card and the at least one processor;

9   a packet-switched interface capable of receiving a multiplicity of

10   inbound framed packet-data to provide inbound packets and

11   transmitting a multiplicity of outbound framed packet-data comprising

12   outbound packets;

13   a channeling controller, coupled to the packet-switched interface

14   that channels the inbound packets based on the inbound address

15   information and that constructs the outbound packets and channels the

16   outbound packets with the outbound address information, the

3

31

17   channeling controller capable of being effectively connected to at least

18   one network via the operating system.

1   8.   (Previously Amended): The wireless provisioning device of claim 1,

2   wherein the wireless provisioning device further comprises a second processor.

1   9.   (Original): The wireless provisioning device of claim 1, wherein the

2   wireless provisioning device further comprises a memory device and a storage

3   device.

1   10.   (Previously Amended): A system for allowing users to securely

2   access public domain area networks via mobile computing devices, comprising:

3   a plurality of wireless access points;

4   at least one wireless provisioning device for receiving,

5   authenticating, transmitting, and directing data over a plurality of

6   networks and capable of sustaining connectivity between the wireless

7   access points and the wireless provisioning device, the wireless

8   provisioning device comprising a chassis, at least one network card, at

9   least one wireless card, at least one processor, and at least one operating

10   system operably configured in the chassis and associated with at least

11   one of the plurality of wireless access points for transmitting and receiving

12   data between the wireless access point and a carrier structure and where

13   the wireless provisioning device is capable of accommodating multiple

14   connections back to the wireless access point without requiring rebooting

15   before a new roaming member can be added to the system;

16   a carrier structure communicably positioned between the wireless

17   provisioning device and the plurality of wireless access points for

18   transmitting and receiving data between the wireless provisioning device

19   and the plurality of wireless access points by means of a secure

20   connections; and

4

21 a security authentication protocol, initiated by the wireless
22 provisioning device, capable of authenticating traffic as it passes through
23 the carrier structure.

1 (Previously Amended): A system for allowing users to securely
2 access public domain area networks via mobile computing devices, comprising:
3 a plurality of wireless access points;
4 at least one wireless provisioning device for receiving,
5 authenticating, transmitting, and directing data over a plurality of
6 networks and capable of sustaining connectivity between the wireless
7 access points and the wireless provisioning device, the wireless
8 provisioning device comprising a chassis, at least one network card, at
9 least one wireless card, at least one processor, and at least one operating
10 system operably configured in the chassis and associated with at least
11 one of the plurality of wireless access points for transmitting and receiving
12 data between the wireless access point and a carrier structure and where
13 the wireless provisioning device is capable of accommodating multiple
14 connections back to the wireless access point without requiring rebooting
15 before a new roaming member can be added to the system, the wireless
16 provisioning device further comprises a directory services member
17 operatively connected to the operating system thereof, which is suitable
18 for maintaining a database directory that stores MAC addresses and
19 billing profiles for those in the system;
20 a carrier structure communicably positioned between the wireless
21 provisioning device and the plurality of wireless access points for
22 transmitting and receiving data between the wireless provisioning device
23 and the plurality of wireless access points by means of a secure
24 connections; and

5

25   a security authentication protocol, initiated by the wireless

26   provisioning device, capable of authenticating traffic as it passes through

27   the carrier structure.

1   12.   (Original): The system of claim 11, wherein the wireless provisioning

2   device is capable of bridging.

1   13.   (Original): The system of claim 12, wherein the wireless provisioning

2   device is capable of routing

3   14.   (Canceled)

1   15.   (Original): The system of claim 11, wherein the carrier structure is a

2   suitable antenna for providing bridging solutions that afford the user the ability to

3   place wireless equipment in a wide area network.

1   16.   (Previously Amended): The system of claim 11, wherein the security

2   authentication protocol is a radius authentication protocol.

1   17.   (Previously Amended): The system of claim 11, wherein the wireless

2   provisioning device provides proxy service.

1   18.   (Previously Amended): The system of claim 11, wherein the wireless

2   provisioning device provides firewall service.

1   19.   (Previously Amended): A system, comprising:

2   a plurality of wireless access points;

3   at least one wireless provisioning device for receiving, transmitting,

4   and directing data over a plurality of networks and capable of sustaining

5   connectivity between the wireless access points and the wireless

6   provisioning device, the wireless provisioning device comprising a chassis,

7   at least one network card, at least one wireless card, at least one

8   processor, and at least one operating system operably configured in the

6

9   chassis and associated with at least one of the plurality of wireless access

10   points for transmitting and receiving data between the wireless access

11   point and a carrier structure and where the wireless provisioning device is

12   capable of accommodating multiple connections back to the wireless

13   access point without requiring rebooting before a new roaming member

14   can be added to the system, the wireless provisioning device further

15   comprises a directory services member operatively connected to the

16   operating system thereof, which is suitable for maintaining a database

17   directory that stores MAC addresses and billing profiles for those in the

18   system;

19   a carrier structure communicably positioned between the wireless

20   provisioning device and the plurality of wireless access points for

21   transmitting and receiving data between the wireless provisioning device

22   and the plurality of wireless access points by means of a secure shell telnet

23   connection; and

24   a security authentication protocol capable of authenticating

25   traffic as it passes through the carrier structure.

1   20.   (Previously Amended): The system of claim 17, wherein the system

2   comprises at least one antenna.

3   a plurality of wireless access points;

4   at least one wireless provisioning device for receiving,

5   authenticating, transmitting, and directing data over a plurality of

6   networks and capable of sustaining connectivity between the wireless

7   access points and the wireless provisioning device, the wireless

8   provisioning device comprising a chassis, at least one network card, at

9   least one wireless card, at least one processor, and at least one

10   operating system operably configured in the chassis and associated

11   with at least one of the plurality of wireless access points for

12   transmitting and receiving data between the wireless access point

7

13   and a carrier structure and where the wireless provisioning device is

14   capable of accommodating multiple connections back to the wireless

15   access point without requiring rebooting before a new roaming

16   member can be added to the system, the wireless provisioning device

17   further comprises a directory services member operatively connected

18   to the operating system thereof, which is suitable for maintaining a

19   database directory that stores MAC addresses and billing profiles for

20   those in the system;

21   a carrier structure communicably positioned between the

22   wireless provisioning device and the plurality of wireless access points

23   for transmitting and receiving data between the wireless provisioning

24   device and the plurality of wireless access points by means of a secure

25   connections; and

26   a security authentication protocol, initiated by the wireless

27   provisioning device, capable of authenticating traffic as it passes

28   through the carrier structure.

1   21. (Previously Amended): A system for allowing users to securely

2   access public domain area networks via mobile computing devices, comprising:

3   a plurality of wireless access points;

4   at least one wireless provisioning device for receiving,

5   authenticating, transmitting, and directing data over a plurality of

6   networks and capable of sustaining connectivity between the wireless

7   access points and the wireless provisioning device, the wireless

8   provisioning device comprising a chassis, at least one network card, at

9   least one wireless card, at least one processor, and at least one operating

10   system operably configured in the chassis and associated with at least

11   one of the plurality of wireless access points for transmitting and receiving

12   data between the wireless access point and a carrier structure and where

13   the wireless provisioning device is capable of accommodating multiple

8

36

14   connections back to the wireless access point without requiring rebooting]

15   before a new roaming member can be added to the system;

16   a 2.4 GHz antenna operatively coupled with the wireless

17   provisioning device;

18   a carrier structure communicably positioned between the wireless

19   provisioning device and the plurality of wireless access points for

20   transmitting and receiving data between the wireless provisioning device

21   and the plurality of wireless access points by means of a secure

22   connections; and

23   a security authentication protocol, initiated by the wireless

24   provisioning device, capable of authenticating traffic as it passes through

25   the carrier structure.

1   22. (Previously Amended): The system of claim 21, wherein the

2   operating system of the wireless provisioning device is an open source Unix

3   based system.

1   23. (Previously Amended): A system, comprising:

2   a plurality of wireless access points;

3   at least one wireless provisioning device for receiving, transmitting,

4   and directing data over a plurality of networks and capable of sustaining

5   connectivity between the wireless access points and the wireless

6   provisioning device, the wireless provisioning device comprising a chassis,

7   at least one network card, at least one wireless card, at least one

8   processor, and at least one LINUX operating system operably configured

9   in the chassis and associated with at least one of the plurality of wireless

10   access points for transmitting and receiving data between the wireless

11   access point and a carrier structure and where the wireless provisioning

12   device is capable of accommodating multiple connections back to the

13   wireless access point without requiring rebooting before a new roaming

14   member can be added to the system, the wireless provisioning device

9

15   further comprises a directory services member operatively connected
16   to the operating system thereof, which is suitable for maintaining a
17   database directory that stores MAC addresses and billing profiles for
18   those in the system;

19   a carrier structure communicably positioned between the wireless
20   provisioning device and the plurality of wireless access points for
21   transmitting and receiving data between the wireless provisioning device
22   and the plurality of wireless access points by means of a secure
23   connections; and

24   a security authentication protocol capable of authenticating
25   traffic as it passes through the carrier structure.

1   24. (Previously Added): The wireless provisioning device of claim 1,
2   wherein the network card, the wireless card, the processor, the operating system,
3   the packet-switched interface, and the channel controller are operatively
4   disposed within the chassis of the wireless provisioning device.

1   25. (Previously Added): The wireless provision device of claim 24,
2   wherein the authenticator is operatively disposed within the chassis of the
3   wireless provisioning device.

1   26. (Previously Added): The wireless provisioning device of claim 1,
2   wherein bandwidth to individual user can be controlled by the wireless
3   provisioning device operating system.

1   27. (Previously Added): The wireless provisioning device of claim 1,
2   wherein the protocol type of an individual user can be controlled by the wireless
3   provisioning device operating system.

1   28. (Previously Added): The system of claim 20, wherein there is more
2   than one antenna and the user is capable of logging on and sustain
3   connectivity with the system while transitioning antennas.

10

1   29.   (Previously Added): The system of claim 20, wherein the user is
2   capable of logging onto and sustaining connectivity with the system while
3   transitioning access points.

1   30.   (New): The wireless provisioning device of claim 23, wherein the
2   network card, the wireless card, the processor, the operating system, the packet-
3   switched interface, and the channel controller are operatively disposed within
4   the chassis of the wireless provisioning device.

1   31.   (New): The wireless provision device of claim 30, wherein the
2   authenticator is operatively disposed within the chassis of the wireless
3   provisioning device.

1   32.   (New): The wireless provisioning device of claim 23, wherein
2   bandwidth to individual user can be controlled by the wireless provisioning
3   device operating system.

1   33.   (New): The wireless provisioning device of claim 23, wherein the
2   protocol type of an individual user can be controlled by the wireless provisioning
3   device operating system.

In response to the above-referenced Office Action, please consider the
following remarks.

11

39